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UTILITY	Attomey Docket No.	48-0004	
PATENT APPLICATION	First Inventor	Stephen John Brosnan	
TRANSMITTAL	Title	Improved Wavefront Sensor	
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No.	EK560291701US	
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO:	Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450	

See MPEP		ION ELEMENTS ming utility patent application content	ts.	ADDRES	SS TO:	Commiss P.O. Box	o Patent App sioner for Pa . 1450 ria VA 22313	atents	• n	<u></u>
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. Specification [Total Pages 12] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed)			l	8. Nucle (if app a. [Computer Peotide and/o	r CD-R in dup trogram (Appe or Amino Acid necessary) uter Readable fication Seque CD-ROM or C Paper	endix) I Sequence Form (CF ence Listin	e Sub RF) eg on: epies);	or	22141 U.S.PTÖ 10/727473
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- Abstr 4.	act of the Disclosuring(s) (35 U.S.C. claration ewly executed (or py from a prior all r continuation/div DELETION OF 1 Signed statement a name in the prior a 1.63(d)(2) and 1.33 lication Data She	[Total Sheets 3	and sup	9. 10. 11. 12. 13. 14. 15. 16. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17	Assignme 37 CFR 3. (when the English Tr Informatio Statement Preliminar Return Re (Should be Certified C (if foreign Nonpublic (b)(2)(B)(i) or its equi Other:	nt Papers (co. 73(b) Statem re is an assig anslation Do Doscosure to (IDS)/PTO-1 y Amendmen eceipt Postcare specifically Copy of Priority is claimation Reques to Applicant movalent.	over sheet over sheet (if anee) 449 It (MPEP stitemized) by Docume med) t under 35 nust attach	& doc PA Applic C 503) Int(s)	cument(s)) Power of Attorney Copies of IDS Citations C. 122 PTO/SB/35	
	-				IP)	of orior applicati	on No ·			
Prior application information: Examiner For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.										
<u></u>		19. CORRES	37UN	DENCE AL	UKESS					
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Name (Print/Ty	pe) John S. Pa	niaguas A		Registratio	n No. (Atto	mey/Agent)	31,051		The second second second second second	
Signature		The Slower	3/	-		- · ·	Date	Dec.	4, 2003	
			-9-							

This collection of information is required by 37 CPR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UTILITY PATENT APPLICATION TRANSMITTAL

Page 2

Attorney Docket No.: 48-0004

First Inventor: Stephen John Brosnan, et al.

Title: IMPROVED WAVEFRONT SENSOR USING HYBRID OPTICAL/ELECTRONIC HETERODYNE TECHNIQUES

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

"Express Mail" Mailing Label No.: EK560291701US

Date of Deposit: December 4, 2003

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Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450.

- 1. \$770.00 check (Application filing fee)
- 2. \$40.00 check (Assignment recordation fee)
- 3. Utility Patent Application Transmittal and Certificate of Mailing by "Express Mail" (2 pages)
- 4. Fee Transmittal (1 page, in duplicate)
- 5. Specification including claims and abstract (12 pages)
- 6. Informal Drawings (3 sheets)
- 7. Executed Declaration for Patent Application (3 pages)
- 8. Form PTO-1595 (Assignment Recordation Form Cover Sheet) (1 page, in duplicate)
- 9. Executed Assignment (1 page)

10. Return-receipt postcard

(Typed or printed name of person mailing)

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PTO/SB/17 (10-03)
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Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

810,00 TOTAL AMOUNT OF PAYMENT

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Complet if Kn wn				
Application Number	HEREWITH			
Filing Date	HEREWITH			
First Named Inventor	STEPHEN JOHN BROSNAN			
Examiner Name	N/A			
Art Unit	N/A			
Attorney Docket No.	48-0004			

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)				
Check Credit card Money Other None	3. ADDITIONAL FEES				
	Large Entity Small Entity				
Deposit Account: Deposit Account 50-/214	Fee Fee Fee Fee Fee Description	Fee Paid			
Account 507/4/4	1051 130 2051 65 Surcharge - late filing fee or oath				
Deposit Account KMZ ROSENMAN	1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet				
Name The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification				
Charge fee(s) indicated below Credit any overpayments	1812 2,520 1812 2,520 For filing a request for ex parte reexamination	on			
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action				
Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account.	1805 1,840° 1805 1,840° Requesting publication of SIR after Examiner action				
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month				
1. BASIC FILING FEE	1252 420 2252 210 Extension for reply within second month				
Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month				
Fee Fee Fee Fee Description Fee Paid	1254 1,480 2254 740 Extension for reply within fourth month				
Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee	1255 2,010 2255 1,005 Extension for reply within fifth month				
1002 340 2002 170 Design filing fee	1401 330 2401 165 Notice of Appeal				
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal				
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing				
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding	,			
SUBTOTAL (1) (\$) 770.	1452 110 2452 55 Petition to revive - unavoidable				
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453 1,330 2453 665 Petition to revive - unintentional				
Fee from	1501 1,330 2501 665 Utility issue fee (or reissue)				
Extra Claims below Fee Paid Total Claims 76 -20** = 0 x /8 = 0	11	•			
	1503 640 2503 320 Plant issue fee				
Claims	1460 130 1460 130 Petitions to the Commissioner				
	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)				
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806 180 1806 180 Submission of Information Disclosure Stmt				
Code (\$) Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties)	40.			
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))				
1203 290 2203 145 Multiple dependent claim, if not paid	1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))				
1204 86 2204 43 ** Reissue independent claims over original patent	1801 770 2801 385 Request for Continued Examination (RCE	, [
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application				
SUBTOTAL (2)	Other fee (specify)				
SUBTOTAL (2) (\$)	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)	40.7			

(Complete (if applicable)) **SUBMITTED BY** Registration No. Name (Print/Type) PANIAGUAS Telephone 312-902-5312 (Attorney/Agent) Date 2003 Signature

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